This project involves the installation of Accessible Pedestrian Signal equipment to serve the north leg crossing at the intersection of MD 2 (Governor Ritchie Highway) at Arnold Road in Anne Arundel County, Maryland. This project also involves the modification of roadway geometrics in the northwest quadrant of the intersection. MD 2 is assumed to run in a North - South direction.

INTERSECTION OPERATIONS

The intersection operates in a fully actuated mode using 6 NEMA phases. The northbound and southbound left- turn movements operate with an

SPECIAL NOTES

- 1. All underground utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying "Miss Utility" prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- The Contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly label each cable so that SHA Forces can make the final connections. Contact the Traffic Signal Operations Supervisor, at least 72 hours prior to installation.
- 3. Red Light cameras and associated equipment to be modified by others, see McMahon Associates, Inc. plans (TIMS# J-698).
- 4. The contact persons for this project are as follows:

PROJECT CONTACTS:

District #5: Mr. Lee Starkloff District Engineer Phone: (410) 841-1001

Ms. Kimberly Tran_ Assistant District Engineer - Traffic Phone: (410) 841-1019

Mr. James Folden Assistant District Engineer - Construction Phone: (410) 841-1031

Assistant District Engineer - Maintenance Phone: (410) 841-1013

Mr. Mike Huber

Utility Engineer Phone: (410) 841-1039

Mr. Ed Rodenhizer Traffic Signal Operations Manager Phone: (410) 787-7650

EQUIPMENT LIST

A. Equipment to be supplied by State Highway Administration.

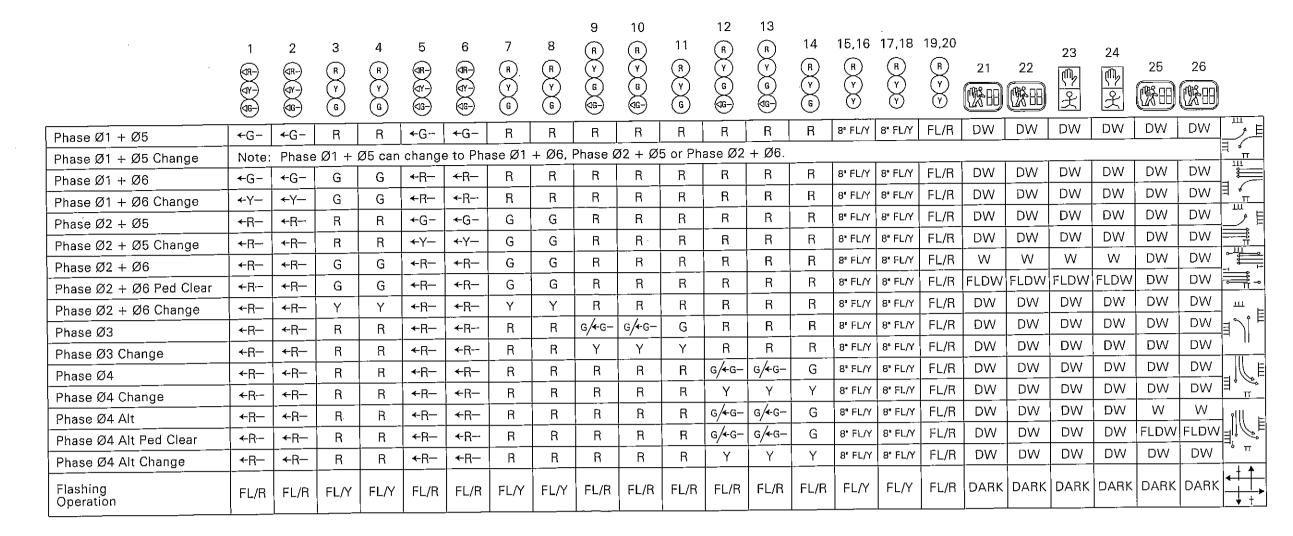
B. Equipment to be furnished and/or installed by the Contractor.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY		
120500	Maintenance of Traffic	LS	1		
130850	Mobilization	LS	1		
585621	Test Pit Excavation	LS	2		
203030	12" White Preformed Thermoplastic Pavement Parking Line	LF	120		
801004	Concrete for Signal Foundation	CY	1		
801104	Wood Sign Supports 4"x 4"	LF	65		
801605	Sheet Aluminum Signs	SF.	11		
	1 Each R6-1 (36" x 12") Ground Mount (One-Way) 1 Each R4-7 (24" x 30") Ground Mount (Keep Right) 1 Each R7-1(R) (12" x 18") Grount Mount (No Parking) 1 Each R7-1(L) (12" x 18") Grount Mount (No Parking)				
802501	Stranded Bare Copper Ground Wire (No. 6 AWG)	LF	110		
805125	2" Schedule 80 Rigid PVC Conduit - Trenched	LF	30		
805135	3" Schedule 80 Rigid PVC Conduit - Trenched	LF	70		
805011	1" Rigid Galvanized Electrical Conduit For Detector Sleeve	LF	15		
811001	Furnish and Install Electrical handhole	EA	2		
811002	Remove Electrical Handhole	EA	2		
818000	5' Breakaway Pedestal Pole	EA	1		
837001	Ground Rod - 3/4" x 10' Length	EA	2		
861104	Electrical Cable - 2 Conductor (Aluminum Shielded)	LF	265		
861105	Electrical Cable - 2 Conductor (No. 14 AWG)	LF	180		
862101	Loop Wire Encased in Flexible Tubing (No. 14 AWG)	LF	425		
862102	Saw Cut for Signal (Loop Detector)	LF	115		
865001	APS Pushbutton and Sign	EA	2		

C. Equipment to be removed and returned to State Highway Administration.

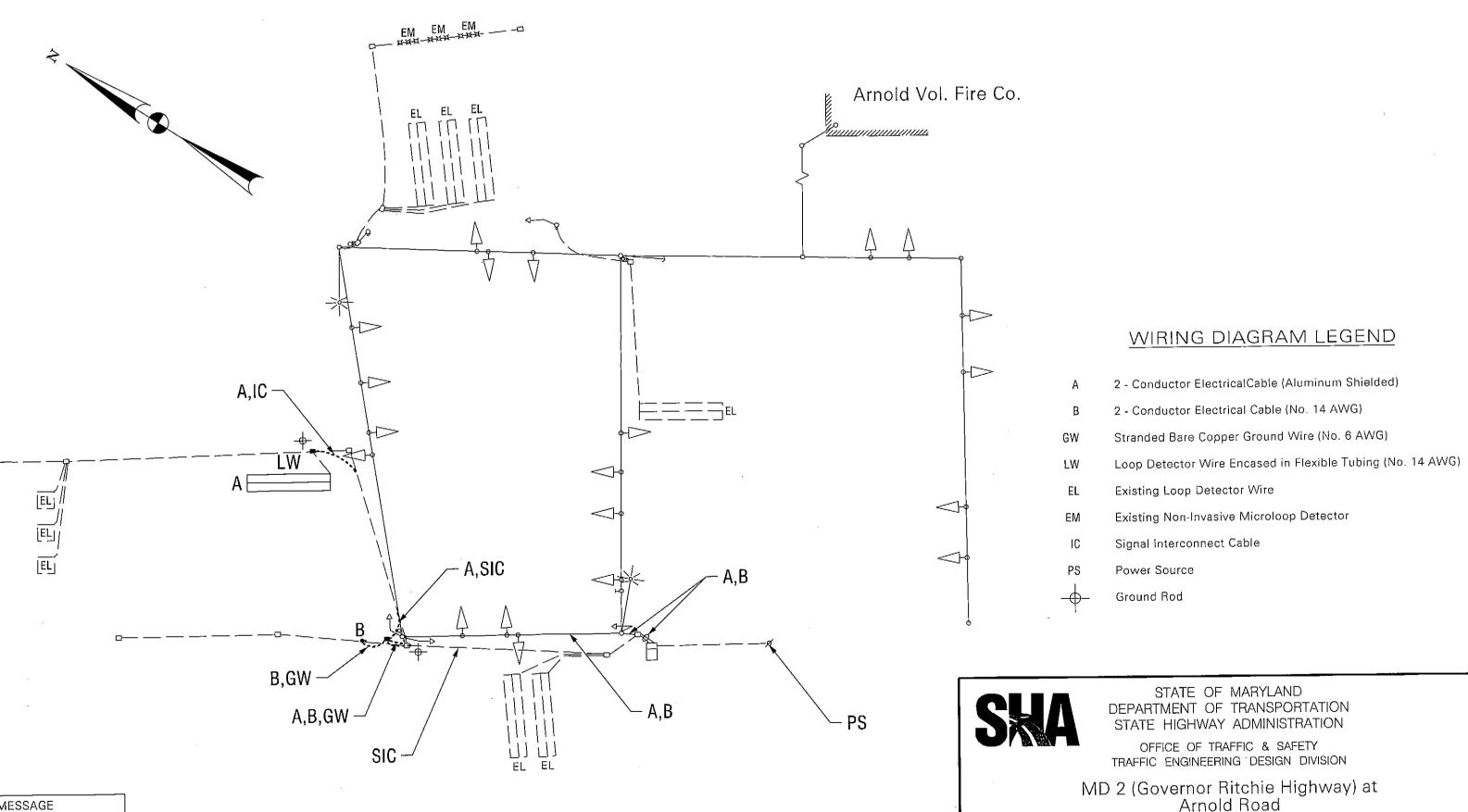
NONE

PHASE CHART



Firehouse Pre-Emption Phase Chart														MD2	Firehouse										
First Change Interval			G	G	← R−	←R-	Y	Υ	R	R	R	R	R	R	8" FL/Y	8" FL/Y	FL/R	DW	DW	DW	DW	DW	DW		
Second Change Interval	+R-	+R-	G	G	+R-	← R—		R	R	R	R	R	R	R	Υ	Y	R	DW	DW	DW	DW	DW	DW		
		+G-		<u> </u>	← R−	+-R-		R	B	B	R	B	R	R	R	R	8" FL/Y	DW	DW	DW	DW	DW	DW	F	∃
Pre-Emption Phase	+-G-		<u> </u>	-	-			<u> </u>	- :	··	<u></u>	<u> </u>			8" FL/Y	8" FL/Y	FL/R	DW	DW	DW	DW	DW	DW	1 "	
Pre-Emption Phase Change	← Y—	← Y—	G	_ G	← R—	← R	R	I K	<u> </u>	<u> </u>	н	K	п	п	8 PL/T	0 PL/1	FL/N					000	D V V		<u> </u>

WIRING DIAGRAM



WALK MESSAGE WAIT MESSAGE When the WALK phase begins, the When the pedestrian locates and LEG push button unit will provide either (1) a rapid tick which will last for the presses the push button for an extended time, the push button unit duration of the WALK phase or (2) will announce the following message: the following message: "WAIT to cross RITCHIE Rapid Tick NORTH at ARNOLD."

MESSAGES FOR ACCESSIBLE

PEDESTRIAN SIGNALS

Existing Signal Interconnect Cable to

controller at next signalized intersection -MD 2 (Gov Ritchie Hwy) at West Campus Dr

FILE: L:\Projects\4001 - 4500\4410 - MD 2 & Arnold Road\Design\MD 2 & Arnold Gl.dgn

WELLS + ASSOCIATES, INC

TRANSPORTATION, TRAFFIC AND PARKING CONSULTANTS

■ 5 Wirt Street SW, Suite 300, Leesburg, Virginia 20175 Phone: 703/ 443-1442 Facsimile: 703/ 443-1225 1420 Spring Hill Road, Suite 600, McLean, Virginia 22100 Phone: 703/ 917-6620 Facsimile: 703/ 917-0739 Arnold, Maryland

General Information Sheet

COUNTY ___

LOGMILE _

T.I.M.S. NO. _____

TOD NO. _____

Anne Arundel

0200225.15

J-634

SHEET NO. 2 OF 2

SCALE N/A DATE 5 May 09 CONTRACT NO.

NDG

APV

DRAWING NO. TS-324-H